

7/1  
(Connell)

wherein R is a linear or branched alkyl or alkenyl, aryl or aralkyl containing at least two carbon atoms; and R' designates a C<sub>2</sub> to C<sub>18</sub> alkylene.

235. In a vinyl halide resin composition containing a mono- or diorganotin compound stabilizer wherein at least one atom bonded to tin is sulfur, the improvement comprising:

the addition of a mercapto alkanol ester of a monocarboxylic acid having the formula:



wherein R is a linear or branched alkyl or alkenyl, aryl or aralkyl containing at least two carbon atoms; and R' designates a C<sub>2</sub> to C<sub>18</sub> alkylene.

236. In a method of stabilizing a vinyl halide resin composition by adding to the resin a mono- or diorganotin compound stabilizer wherein at least one atom bonded to tin is sulfur, the improvement comprising:

the addition of a mercapto alkanol ester of a monocarboxylic acid having the formula:



wherein R is a linear or branched alkyl or alkenyl, aryl or aralkyl containing at least two carbon atoms; and R' designates a C<sub>2</sub> to C<sub>18</sub> alkylene.

237. A composition comprising:

- J
- (a) a mono- or <sup>dialkyl</sup> dialkyl bis(isooctyl mercapto acetate) compound wherein the alkyl is a C<sub>1</sub> to C<sub>8</sub> alkyl; and
- (b) a mercapto alkanol ester of a monocarboxylic acid.

LAW OFFICES

FINNEGAN, HENDERSON  
FARABOW, GARRETT  
& DUNNER

1300 I STREET, N. W.  
WASHINGTON, D. C. 20005  
1-202-408-4000

H  
(cont)

238. A composition according to claim 237, wherein said mono- or <sup>dialkyltin</sup>~~dialkyl~~ bis(isooctyl mercapto acetate) compound is selected from the group consisting of di-n-octyltin bis-(isooctyl mercapto acetate); di-n-butyltin bis-(isooctyl mercapto acetate); a mixture of an anhydride of thiobutyl stannic acid with di-n-butyltin bis-(isodecyl mercapto acetate); and a condensation polymer of butyl stannic acid and butyl thiostannic acid.

239. A vinyl halide resin composition comprising:

(a) a vinyl halide resin;

J

(b) a mono- or <sup>dialkyltin</sup>~~dialkyl~~ bis(isooctyl mercapto acetate) compound wherein the alkyl is a C<sub>1</sub> to C<sub>8</sub> alkyl; and

(c) a mercapto alkanol ester of a monocarboxylic acid.

J

240. A composition according to claim 239, wherein said mono- or <sup>dialkyltin</sup>~~dialkyl~~ bis(isooctyl mercapto acetate) compound is selected from the group consisting of di-n-octyltin bis-(isooctyl mercapto acetate); di-n-butyltin bis-(isooctyl mercapto acetate); a mixture of an anhydride of thiobutyl stannic acid with di-n-butyltin bis-(isodecyl mercapto acetate); and a condensation polymer of butyl stannic acid and butyl thiostannic acid.

J

241. A composition comprising a product produced by mixing:

(a) a mono- or <sup>dialkyltin</sup>~~dialkyl~~ bis(isooctyl mercapto acetate) compound wherein the alkyl is a C<sub>1</sub> to C<sub>8</sub> alkyl; and

(b) a mercapto alkanol ester of a monocarboxylic acid.

J

242. A composition according to claim 241, wherein said mono- or <sup>dialkyltin</sup>~~dialkyl~~ bis(isooctyl mercapto acetate) compound is selected from the group consisting of di-n-octyltin bis-(isooctyl mercapto acetate); di-n-butyltin bis-(isooctyl mercapto acetate);

LAW OFFICES

FINNEGAN, HENDERSON  
FARABOW, GARRETT  
& DUNNER

1300 I STREET, N. W.  
WASHINGTON, DC 20005  
1-202-408-4000

H/ (Contd)  
a mixture of an anhydride of thiobutyl stannic acid with di-n-butyltin bis-(isodecyl mercapto acetate); and a condensation polymer of butyl stannic acid and butyl thiostannic acid.

243. A method of stabilizing a vinyl halide resin comprising the steps of:

J (a) adding to the vinyl halide resin a mono- or ~~di~~<sup>dialkyltin</sup>alkyl bis(isooctyl mercapto acetate) compound wherein the alkyl is a C<sub>1</sub> to C<sub>8</sub> alkyl; and

(b) adding to the vinyl halide resin a mercapto alkanol ester of a monocarboxylic acid.

J 244. A method according to claim 243, wherein said mono- or ~~di~~<sup>dialkyltin</sup>alkyl bis(isooctyl mercapto acetate) compound is selected from the group consisting of di-n-octyltin bis-(isooctyl mercapto acetate); di-n-butyltin bis-(isooctyl mercapto acetate); a mixture of an anhydride of thiobutyl stannic acid with di-n-butyltin bis-(isodecyl mercapto acetate); and a condensation polymer of butyl stannic acid and butyl thiostannic acid.

245. A method of stabilizing a vinyl halide resin comprising the step of adding to the vinyl halide resin in an amount effective to stabilize the vinyl halide resin a product produced by mixing:

J (a) a mono- or ~~di~~<sup>dialkyltin</sup>alkyl bis(isooctyl mercapto acetate) compound wherein the alkyl is a C<sub>1</sub> to C<sub>8</sub> alkyl; and

(b) a mercapto alkanol ester of a monocarboxylic acid.

J 246. A method according to claim 245, wherein said mono- or ~~di~~<sup>dialkyltin</sup>alkyl bis(isooctyl mercapto acetate) compound is selected from the group consisting of di-n-octyltin bis-(isooctyl mercapto

LAW OFFICES

FINNEGAN, HENDERSON  
FARABOW, GARRETT  
& DUNNER

1300 I STREET, N. W.  
WASHINGTON, DC 20005  
1-202-408-4000

H  
(cont)

acetate); di-n-butyltin bis-(isooctyl mercapto acetate); a mixture of an anhydride of thiobutyl stannic acid with di-n-butyltin bis-(isodecyl mercapto acetate); and a condensation polymer of butyl stannic acid and butyl thiostannic acid

Amend claims 73-75, 77, 80, 81, 83, 84, 87-89, 91, 92, 94, 95, 97-101, 121-123, 125, 126, 128, 129, 131-133, 193-198, 200-207, 209-214, 219-225 and 227-233 as follows.

At line 1 of claims 73-75, 77, 80, 81, 83 and 84, delete "71" and substitute therefore --234--.

At line 1 of claims 87-89, 91, 92, 94, 95, and 97-101, delete "85" and substitute therefore --235--.

At line 1 of claims 121-123, 125, 126, 128, 129 and 131-133, delete "119" and substitute therefore --236--.

At line 1 of claims 193-198, delete "192" and substitute therefore --237--.

At line 1 of claims 200-207, delete "199" and substitute therefore --239--.

At line 1 of claims 209-214, delete "208" and substitute therefore --241--.

At line 1 of claims 219-225, delete "218" and substitute therefore --243--.

At line 1 of claims 227-233, delete "226" and substitute therefore --245--.

#### REMARKS

Claims 71, 85, 119, 192, 199, 208, 218 and 226 have been cancelled, and new claims 234-246 have been added to more precisely define the subject matter of the present invention.

LAW OFFICES

FINNEGAN, HENDERSON  
FARABOW, GARRETT  
& DUNNER

1300 I STREET, N. W.  
WASHINGTON, D.C. 20005  
1-202-408-4000